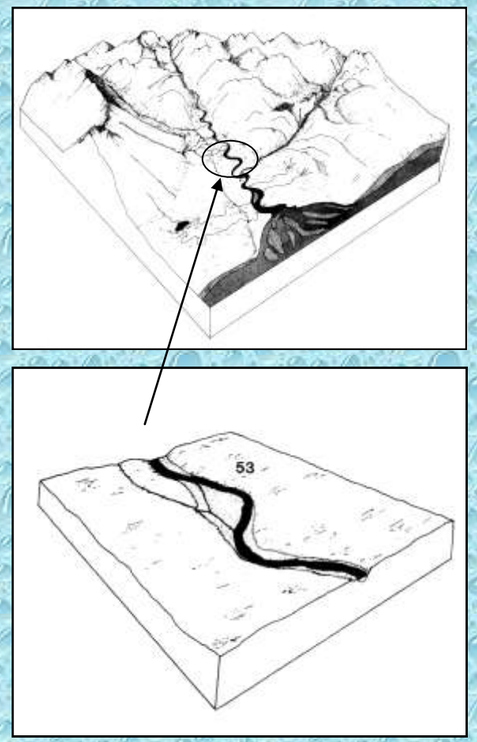
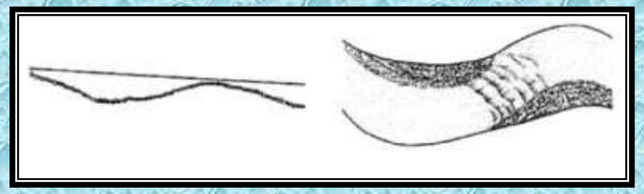


Flood Plain Process Group

- situated in valley bottoms and lowlands where alluvial deposition is prevalent -**53 land-form**
- high stream flows are not contained within the active channel banks and
- **flood plain development is evident (2 x channel width)**
- in larger river systems riparian area may extend beyond 30 meters (100ft) from the banks.
- channels are dominated by well defined pools, riffles and gravel bars, often in a predictable and regular sequence.
- channel banks are composed of easily eroded unconsolidated alluvial material
- large wood is a major component affecting pool development and stability and can create complex channel morphology (Bisson, et al 2006).
- corresponding Montgomery and Buffington channel types: **Pool-riffle and Forced Pool-Riffle**

Channel Type	Label	Former Label
Micro Flood Plain Channel	**FPO**	FP0
Small Flood Plain Channel	**FPS**	FP3
Medium Flood Plain Channel	**FPM**	FP4
Large Flood Plain Channel	**FPL**	FP5
Foreland Uplifted Beach/ Channel	**FPB**	FP1
Foreland Uplifted Estuarine Channel	**FPE**	FP2

Stream Gradient: less than 2%
Hydrologic Function: sediment deposition
Stream Class: I or II



Pool-Riffle longitudinal profile and planform schematics (Montgomery and Buffington, 1997). Large wood may create a forced pool-riffle channel type.

February 11, 2009

Habitat Attribute	Percentiles	FP_PG	FPS	FPM	FPL
WD	25	16.5	10.9	18.5	23.1
	50	19.3	14.9	20.2	27.2
	75	26.7	19.0	32.8	43.6
TLWD/M	25	0.26	0.24	0.31	0.15
	50	0.36	0.40	0.37	0.17
	75	0.50	0.55	0.50	0.46
TKWD/M	25	0.04	0.10	0.06	0.02
	50	0.10	0.17	0.11	0.03
	75	0.15	0.25	0.15	0.08
POOLS/KM	25	30	30	30	10
	50	45	40	40	20
	75	70	70	60	25
POOL SPACE	25	1.4	2.2	1.3	1.7
	50	2.2	3.2	1.8	2.7
	75	3.5	5.1	2.2	3.2
RPD/CBW	25	0.04	0.06	0.04	0.03
	50	0.05	0.07	0.04	0.03
	75	0.06	0.09	0.05	0.03
D50	25	17	22	15	17
	50	24	27	19	20
	75	39	39	34	53
PLNGTH/M	25	0.34	0.35	0.38	0.18
	50	0.51	0.58	0.54	0.42
	75	0.69	0.69	0.70	0.44
REL_SUBMRG	25	12.0	10.6	26.5	11.4
	50	24.2	14.0	36.9	25.8
	75	37.5	23.1	49.4	52.2
POOL_SIZE	25	0.65	0.67	0.68	0.58
	50	0.84	1.14	0.84	0.65
	75	1.23	1.58	0.94	0.95